

2. (Original) The medical device of claim 1, wherein said energy device includes a laser.

3. (Original) The medical device of claim 2, wherein said movement device includes a lens and a mechanism for moving a focal point of said lens.

4. (Original) The medical device of claim 3, wherein said mechanism includes a stepper motor.

61  
cont. 5. (Original) The medical device of claim 3, wherein said mechanism includes a solenoid.

6. (Original) The medical device of claim 3, wherein said mechanism includes a shaped memory metal.

7. (Original) The medical device of claim 3, wherein said movement device includes a feedback sensor.

8. (Original) The medical device of claim 7, wherein said feedback sensor includes an optical encoder.

9. (Original) The medical device of claim 7, wherein said feedback sensor includes a linear variable differential transformer.

10. (Original) The medical device of claim 7, wherein said feedback sensor includes a hall effect sensor.

11. (Original) The medical device of claim 7, wherein said feedback sensor includes a proximity sensor.

12. (Original) The medical device of claim 1, wherein said energy device is a non-coherent light source.

31  
Cont.  
13. (Original) The medical device of claim 12, wherein said movement device includes a lens and a mechanism for moving a focal point of said lens.

14. (Original) The medical device of claim 13, wherein said mechanism includes a stepper motor.

15. (Original) The medical device of claim 13, wherein said mechanism includes a solenoid.

16. (Original) The medical device of claim 13, wherein said mechanism includes a shaped memory metal.

17. (Original) The medical device of claim 13, wherein said movement device includes a feedback sensor.

18. (Original) The medical device of claim 17, wherein said feedback sensor includes an optical encoder.

19. (Original) The medical device of claim 17, wherein said feedback sensor includes a linear variable differential transformer.

20. (Original) The medical device of claim 17, wherein said feedback sensor includes a hall effect sensor.

21. (Original) The medical device of claim 17, wherein said feedback sensor includes a proximity sensor.

22. (Original) The medical device of claim 1, wherein said energy device includes an ultrasonic transducer.

23. (Original) The medical device of claim 22, wherein said movement device includes a mechanism for moving said ultrasonic transducer.

24. (Original) The medical device of claim 23, wherein said mechanism includes a stepper motor.

25. (Original) The medical device of claim 23, wherein said mechanism includes a solenoid.

26. (Original) The medical device of claim 23, wherein said mechanism includes a shaped memory metal.

27. (Original) The medical device of claim 23, wherein said movement device includes a feedback sensor.

28. (Original) The medical device of claim 27, wherein said feedback sensor includes an optical encoder.

29. (Original) The medical device of claim 27, wherein said feedback sensor includes a linear variable differential transformer.

Bl  
Cont.

30. (Original) The medical device of claim 27, wherein said feedback sensor includes a hall effect sensor.

31. (Original) The medical device of claim 27, wherein said feedback sensor includes a proximity sensor.

32. (Amended) A medical device that can denature a cornea, comprising:  
a plurality of energy devices that can each direct energy to a different focal point within the cornea at a power level to denature corneal tissue without removing corneal tissue; and

a controller that can select the energy devices so that the focal point of energy varies through the cornea.

33. (Original) The medical device of claim 32, wherein said energy devices include light sources.

34. (Original) The medical device of claim 32, wherein said energy devices include ultrasonic sources.

35. (Original) The medical device of claim 32, wherein said selector includes a controller

61  
cont.

36. (Amended) A method for denaturing a cornea, comprising:  
directing energy onto a focal point within the cornea at a power level to denature corneal tissue without removing corneal tissue; and,  
varying the focal point of the energy.

37. (Original) The method of claim 36, wherein the energy creates a column of denatured tissue within a stroma of the cornea.

38. (Original) The method of claim 36, wherein the energy is light.

39. (Original) The method of claim 36, wherein the energy is ultrasonic.

40. (Amended) The medical system of claim 1, wherein said energy device directs energy to a[[the]] focal point [[is]] within a stroma layer of the cornea.

41. (Previously presented) The medical system of claim 40, wherein said movement device moves the focal point in a circular pattern about the cornea, wherein the circular pattern has a diameter of approximately 6-8 millimeters.

42. (Previously presented) The medical system of claim 37, wherein the focal points are within a stroma layer of the cornea.

43. (Previously presented) The medical system of claim 42, wherein said controller moves the focal points in a circular pattern about the cornea, wherein the circular pattern has a diameter of approximately 6-8 millimeters.

44. (Amended) The method of claim 37, wherein a circular pattern of denatured tissue points are ~~created~~<sup>created</sup> in the cornea, the circular pattern having a diameter of 6-8 millimeters.